## **Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

## **Listing of Claims:**

1

1

2

3

4

5

6

7

8

9

10

11

1

2

1-25. (Cancelled)

said constant average analog output signal; and

26. (Previously Presented) An isolation system with analog communication across an isolation barrier comprising:

an isolation barrier circuit having at least one isolation element;
a digital to analog circuit configured to provide a constant average analog output signal to the isolation barrier and having an input for receiving an input digital signal to be communicated across the isolation barrier, said digital to analog circuit including a digital to analog converter with an input for receiving said input digital signal and an analog modulation circuit responsive to said digital to analog converter for providing

an analog to digital circuit having an input coupled to the analog output of the isolation barrier circuit for providing a digital output signal.

27. (Previously Presented) The isolation system of claim 26 in which said analog to digital circuit includes an analog demodulator circuit responsive to said input analog signal

- from said isolation barrier, and an analog to digital converter responsive to said analog 3 signal to provide said digital output signal.
- 28. (Previously Presented) The isolation system of claim 26 in which said isolation 1 element includes a capacitance. 2
- 29. (Previously Presented) The isolation system of claim 26 in which said isolation 1 element includes a transformer. 2
- 30-32. (Cancelled) 1

4